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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,451	10/21/2003	Michael C. Sherman	4002-3274	3728
	7590 04/05/200 MHARDT, MORIAR	EXAMINER		
111 MONUMENT CIRCLE, SUITE 3700 INDIANAPOLIS, IN 46204-5137			SWIGER III, JAMES L	
			ART UNIT	PAPER NUMBER
			3733	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS 04		04/05/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
	10/690,451	SHERMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	James L. Swiger	3733			
The MAILING DATE of this communication apperiod for Reply	opears on the cover sheet w	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status		•			
1) Responsive to communication(s) filed on 11.	January 2007.				
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-32,35-39 and 47-62 is/are pending 4a) Of the above claim(s) is/are withdress. 5) Claim(s) is/are allowed. 6) Claim(s) 1-32,35-39 and 47-62 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers		•			
9) ☐ The specification is objected to by the Examir	ner.				
10)⊠ The drawing(s) filed on <u>3/29/2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to th	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre	•				
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:	ın priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
1. Certified copies of the priority document					
2. Certified copies of the priority documer					
3. Copies of the certified copies of the pri	-	n received in this National Stage			
application from the International Bure	, , , , , , , , , , , , , , , , , , , ,	at received			
* See the attached detailed Office action for a lis	a of the certified copies no	n received.			
Attachment(s)	A) 🗍 Internitori	Summany (BTO 412)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		v Summary (PTO-413) p(s)/Mail Date			

Paper No(s)/Mail Date

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other: _

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DETAILED ACTION

Claim Objections

Claim 47 is objected to because of the following informalities: In line 12, it is suggested to change "configure" to --configured--. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-13, 15-34, and 36-39, and 47-62 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen (US Patent 6,206,882) in view of Tune (US Patent 4,905,680) and Tormala et al. (US Patent 4,655,203). Cohen discloses an orthopedic device for securing bones comprising an elongate member portion (10), that is capable of allowing translational or rotational movement due to the slits, also considered voids, which enable the member to move relative to the bones. The plate is secured at a first and second ends (at 22b and 22a, for example) at the bone site and then the elongated portion can move proportionally to the bones that are attached. See also Fig. 2 for drawing of device. The device also has reinforcement member (see Fig. 6) that, when used in combination with an appropriate plate embodiment and bone anchor would be capable of reinforcing the attachment of the device to two bone portions. The device is also made of a biocompatible material (see col. 3, lines 25-40) and has opposing end portions for a first and second end. The art also discloses that the design of the

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elongated engagement device can adjust and provide a degree of 'elasticity.'

Depending on how the plate is used, a first portion could have a certain degree of resistance to deformation, as opposed to the other end. In addition, one end of the plate may be considered to have voids, while a portion of the opposing end of the plate could be considered to have none, such as the area that is closer to the bone fastener areas. It is also noted that Cohen would disclose performing the method of attaching to at least two bone portions.

Cohen discloses the claimed invention except for a plate with voids that have a reinforcing component that may be resorbable. Tune has reinforcing portions in light of the same interpretation of Cohen (27) that teaches a material that is an absorbable polymer (see Col. 2, lines 15-30). It would have been obvious at the time the invention was made to construct the device of Cohen having at least a resorbable polymer in view of Tune to better use the device for fixation of the spine as it heals.

The combination of Cohen and Tune disclose the claimed invention except for, more specifically, an elongate member also being an orthopedic rod. Tormala et al. disclose a bone device that has a more plate-like portion, but also disclose rod-like (8) embodiments. These would modify the device of Cohen with regards to the shape. Also, tormala et al. teaches that the invention has various properties that enable it to be absorbed as it is absorbed, thus based on the specific biocompatible element, it would meet more specific time constraints for absorption as required by the claims. (Col. 3, lines 35-65). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Cohen and Tune having at least

a rod-like member with more specific absorption rates in view of Tormala et al. to better use the invention.

Claim 14 is rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of Cohen '882 and Tune '680 and Tormala et al. '203 as applied to claim 1 above, and further in view of Alexander et al. (US patent 4,512,038). The combination of Cohen '882 and Tune '680 and Tormala et al. '203 disclose the claimed invention except for more specifically a reinforcing material that could be disposed in the voids themselves. Alexander et al. discloses a bio-absorbable composite tissue that is made of a biodegradable material (see Fig. 3) that may be placed in the said voids and is biodegradable over time (Col. 3, lines 29-41). As it reabsorbs into the body, it would cause less positive force or maintaining bone restriction. Also, the rate at which the material would absorb would also affect the mass that is left. Thus the mass rate is adjustable as well (Col. 3, lines 55-61). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of the combination of Cohen '882 and Tune '680 and Tormala et al. '203 having a material that is capable of fitting into the voids and assimilating at a certain rate in view of Alexander et al. to better use the device to secure bone.

Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cohen '882 and Tune '680 and Tormala et al. '203 as applied to claim 24 above, and further in view of Burton (US Patent 4,743,260). The combination of Cohen '882 and Tune '680 and Tormala et al. '203 disclose the claimed invention except for a hollow orthopedic rod with reinforcing material. Burton discloses a rod with a hollow interior (18a) that may

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have a reinforcing material inside for support (see Col. 4, lines 21-27). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Cohen '882 and Tune '680 and Tormala et al. '203 having at least a hollow rod in view of Burton to better use the device.

Response to Arguments

Applicant's arguments with respect to claims 1-32, 35-39, and 47-62 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

The indicated allowability of claim 47 is withdrawn in view of the newly discovered reference(s) to Cohen '882 and Tormala et al. '203. Rejections based on the newly cited reference(s) follow.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See '892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Swiger whose telephone number is 571-272-5557. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JLS

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SUPERVISORY PAFENT EXAMINER